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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail on December 22, 2004 in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Patti Crowder

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Benjamin N. Eldridge et al.

Application No.: 09/846,490

Filing Date: April 30, 2001

For: PROBE CARD ASSEMBLY AND KIT, AND METHODS OF MAKING SAME

Examiner: C. Arbes

Group Art Unit: 3729

REQUEST FOR ACKNOWLEDGEMENT OF IDS(S)

Mail Stop: RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Examiner Arbes:

The Examiner initialed listings of prior art are outstanding in four Information Disclosure Statements filed on March 8, 2002, January 10, 2003, May 8, 2003, and May 25, 2004 for the above-referenced application. Applicants request that the art cited in those four Information Disclosure Statements be considered and the listings of prior art be initialed and returned. For your convenience enclosed, as Attachments 1-4, are copies of the Information Disclosure Statements, excluding copies of the cited art references, as well as, copies of the stamped returned postcard. We will gladly supply an additional copy of the cited references upon request.

PATENT Docket No.: P6D2-US

The Assistant Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this transmittal and associated documents, or to credit any overpayment to Deposit Account No. 50-0285 (Order No. P6D2-US).

Respectfully submitted,

Date: December 22, 2004

Bv:

Stuart L. Merkadeau Registration No. 33,262

FormFactor, Inc. Legal Department 7005 Southfront Road Livermore, CA 94551 Telephone: (925) 290-4028

Fax: (925) 290-4119

PATENT Docket No.: P6D2-US

ATTACHMENT 1

IN THE U.S. PATENT AND TRADEMARK OFFICE Application No.: 09/846.490

	
Inventor: Benjamin N. Eldridge et al.	Attorney Docket No.: P6D2-US
Title: PROBE CARD AGE	Date Due:
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Title: PROBE CARD ASSEMBLY AND KIT, AND	METHODS OF USING SAME
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Receipt is hereby acknowledged of the following:	
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☐ Drawings Sheets ☐ Declaration and D	Petition for Extension of Time
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Application No.: 09/846,490 Inventor: Benjamin N. Eldridge et al. Title: PROBE CARD ASSEMBLY AND KIT, AND	Date Due:
Application No.: <u>097015</u> Inventor: <u>Benjamin N. Eldridge et al.</u> Inventor: <u>Benjamin N. ASSEMBLY AND KIT, AND</u>	METHODS OF OSTROE
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IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 09/846,490	DEMARK OFFICE
Inventor: Benjamin N. Eldeid Attorr	ney Docket No.:_P6D2-US
Title: PROBE CARD ASSEMBLY AND KIT, AND METH	Due:
KIT, AND METH	HODS OF USING SAME
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Benjamin N. Eldridge et al.

Application No.: 09/846,490 Filing Date: April 30, 2001

For: PROBE CARD ASSEMBLY AND KIT, AND

METHODS OF USING SAME

Examiner: C. Arbes Group Art Unit: 3729

INFORMATION DISCLOSURE STATEMENT (IDS)

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Listed on an attached Form PTO/SB/08A is information known to applicant(s). A copy of each listed publication, U.S. and foreign patent document, and pending U.S. application (including drawings and claims), is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. The Examiner is requested to initial and return the attached Form PTO/SB/08A in accordance with MPEP §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

This state apply):	ement qualifi	fies under 37 C.F.R. §1.97, subsection (b) because (check all that
	(1)	It is being filed within 3 months of the application filing date (other than the filing date of a continued prosecution application under §1.53(d)) OR
	(2)	It is being filed within 3 months of entry of a national stage OR
	(3)	It is being filed before the mail date of the first Office Action on the merits OR
	(4)	It is being filed before the mail date of the first Office Action after the filing of a request for continued examination under §1.114.
beyond t entry of t mailing d Action af the mailir	he filing date he national s ate of a first of ter the filing on g date of the	If this statement is being filed after the latest of: (1) three months the of a national application; (2) three months beyond the date of stage as set forth in §1.491 in an international application; (3) the office action on the merits, or (4) the mailing date of a first Office of a request for continued examination under §1.114, but before the earlier of a final office action under §1.113, a notice of allowance action that otherwise closes prosecution in the application, then:
□ a	statement as	as specified in §1.97(e) is provided below; or
		0.00 as set forth in §1.17(p) is authorized below, enclosed, or the payment of other papers filed together with this statement.
a final off	ice action un	f this statement is being filed after the mailing date of the earlier of or ander §1.113, a notice of allowance under §1.311, or an action that secution in the application, but before payment of the issue fee,
A. a	statement as	s specified in §1.97(e) is provided below; and
		0.00 as set forth in §1.17(p) is authorized below, enclosed, or the payment of other papers filed together with this statement.

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Fee Authorization. Applicants hereby authorize the Commissioner to charge the above fee of \$180.00 to Deposit Account No. 50-0285 (Order No. P6D2-US). Although Applicants believe that no additional fee is due in connection with the filing of this paper, the Commissioner is hereby authorized to charge any additional fees due, or credit any overpayment associated, with this communication to Deposit Account No. 50-0285 (Order No. P6D2-US).

Respectfully submitted,

Date: March 8, 2002

N. Kenneth Burraston Reg. No. 39,923

FormFactor, Inc. Legal Department 2140 Research Drive Livermore, CA 94550 Telephone: (925) 294-4300

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INFORMATION DISCLOSURE				Complete If Known				
				Application Number	09/846,490			
				Filing Date	April 30, 2001			
STA	STATEMENT BY APPLICANT			First Named Inventor	Eldridge et al.			
(use as many sheets as necessary)				Group Art Unit	3729			
			• •	Examiner Name	C. Arbes			
Sheet	1	of	6	Attorney Docket No.	P6D2-US			

U.S. PATENT DOCUMENTS						
Examiner	Cite	U.S. Patent Docum		Name of Patentee or	Publication	Relevant
Initials*	No.1	Number Kind	l Code ²	Applicant	Date	Portions
	1	4032058		Riseman	6/28/1977	
	2	5103557		Leedy	4/14/1992	
	3	5187020		Kwon et al.	2/16/1993	
	4	5191708		Kasukabe et al.	3/9/1993	
	5	5354712		Ho et al	10/11/1994	
	6	5391521		Kim	2/21/1995	
	7	5513430		Yanof et al.	5/7/1996	
	8	6002266		Briggs et al.	12/14/1999	
	9	5917707		Khandros et al.	6/29/1999	
	10	6110823		Eldridge et al.	8/29/2000	
	11	6029344		Khandros et al.	2/29/2000	
	12	5772451		Dozier II, et al.	6/30/1998	
	13	2967216		Zablocki et al.	Jan-61	
	14	3663920		Lapham	May-72	
	15	3676776		Bauer et al.	Jul-72	
	16	3714384		Burkhardt	Jan-73	
	17	3771110		Reed	Nov-73	
	18	3826984		Epple	Jul-74	·
	19	3891924		Ardezzone et al.	Jun-75	
	20	3994552		Selvin	Nov-76	
	21	4307928		Petlock Jr.	Dec-81	
	22	4338621		Braun	Jul-82	
	23	4358175		Reid	Nov-82	·
	24	4466184		Cuneo et al.	Aug-84	
	25	4553192		Babuka	Nov-82	

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

C. Lavin	Substitute for form 1440A /PTO			Complete If Known		
Substitute for form 1449A/PTO				Application Number	09/846,490	
INFORMATION DISCLOSURE				Filing Date	April 30, 2001	
STA	STATEMENT BY APPLICANT			First Named Inventor	Eldridge et al.	
	(use as many sheets as necessary)			Group Art Unit	3729	
		Examiner Name	C. Arbes			
Sheet	2	of	6	Attorney Docket No.	P6D2-US	

U.S. PATENT DOCUMENTS						
Examiner	Cite	U.S. Patent Docu		Name of Patentee or	Publication	Relevant
Initials*	No.1	Number Ki	nd Code ²	Applicant	Date	Portions
	26	4567433		Ohkubo et al.	Jan-86	
	27	4593958		Baba	Jun-86	
	28	4615573		White et al.	Oct-86	
	29	4616404		Wang et al.	Oct-86	
	30	4707655		Kruger	Nov-87	
	31	4773877		Kruger et al.	Sep-88	
	32	4831614		Duerig et al.	May-89	
	33	4866504		Landis	Sep-89	
	34	4893172		Matsumoto et al.	Jan-90	
	35	4932883		Hsia et al.	Jun-90	
	36	4965865		Trenary	Oct-90	
	37	4993957		Shino	Feb-91	
	38	5090118		Kwon et al.	Feb-92	
	39	5152695		Grabbe et al.	Oct-92	
	40	5191708		Kasukabe et al.	Mar-93	
	41	5210939		Mallik et al.	May-93	
	42	5221895		Janko et al.	Jun-93	
	43	5308797		Kee	May-94	
	44	5391521		Kim	Feb-95	
	45	5469733		Yasue et al.	Nov-95	
	46	5475318		Marcus et al.	Dec-95	
	47	5632631		Fjelstad et al.	May-97	
	48	5811982		Beaman et al.	Sep-98	
	49	3832632		Ardezzone	8/27/1974	
	50	3654585		Wickersham	4/4/1972	

Examiner	Date	
Signature	 Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

	Substitute for form 1449A/PTO			Complete If Known		
				Application Number	09/846,490	
INFORMATION DISCLOSURE				Filing Date	April 30, 2001	
STATEMENT BY APPLICANT		First Named Inventor	Eldridge et al.			
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U.S. PATENT DOCUMENTS								
Examiner	Cite	U.S. Patent Docum	ent	Name of Patentee or	Publication	Relevant		
Initials*	No.1	Number Kind	Code ²	Applicant	Date	Portions		
	51	3842189		Southgate	10/15/1974			
	52	4085502		Ostman et al.	4/25/1978			
	53	4548451		Benarr et al.	10/22/1985			
	54	4707657		Boegh-Petersen	11/17/1987			
	55	4983907		Crowley	1/8/1991			
	56	5017738		Tsuji et al.	5/21/1993			
	57	5067007		Kanji et al.	Nov-91			
	58	5139427		Boyd et al.	8/18/1992			
	59	5148103 -		Pasiecznik, Jr.	9/15/1992			
	60	5187020		Kwon et al.	2/16/1993			
	61	5228861		Grabbe	7/20/1993			
	62	5317479		Pai et al.	5/31/1994			
	63	5437556		Bargain et al.	8/1/1995			
	64	5471151		DiFrancesco	11/28/1995			
	65	5476211		Khandros	12/19/1995			
	66	5806181		Khandros et al.	Sep-98			
	67	5828226		Higgins et al.	Oct-98			
	68	5852871		Khandros	Dec-98			
	69	5900738		Kandros et al.	May-99			
	70	6050829		Eldridge et al.	Apr-00			
	71	5109596		Driller et al.	May-92			
	72	5399982		Driller et al.	Mar-95			
	73	4955523		Calomagno et al.	Sep-90			
	74	5189507	 	Carlomagno et al.	Feb-93			

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Substitute for form 1449A/PTO				Application Number	09/846,490	
INFORMATION DISCLOSURE				Filing Date	April 30, 2001	
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Examiner	Cite	U.S. Pater	t Document	Name of Patentee or	Publication	Relevant
Initials*	No.1	Number	Kind Code ²	Applicant	Date	Portions
	75	5455390		DiStefano et al.	Oct-95	
	76	5130779		Agarwala et al.	Jul-92	
	77	5071359		Arnio et al.	Dec-91	
	78	5072520		Nelson	Dec-91	
	79	5237743		Busacco et al.	Aug-93	
	80	5245751		Locke et al.	Sep-93	
	81	5379515		Kondo et al.	Jan-95	
	82	4947481		Ikedo et al.	Aug-90	

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Examiner Initials	Cite No.1	Forei	gn Patent D Number ⁴	Ocument Kind Code ⁵	Name of Patentee or Applicant	Publication Date	Relevant Portions	T ⁶
	83	GB	1446196		Carrier	8/18/2076		
	84	EP	295914		Karnezos	12/21/1988		
	85	EP	396248		Keiichi et al.	11/7/1990		
	86	EP	413042		Greschner et al.	2/10/1991		
,	87	JР	4214650		Shoichi	8/5/1992	<u> </u>	
	88	JР	6018555		Meisei Denshi Kogyo	1/25/1994		
	89	JР	6265575		Masamitsu et al.	9/22/1994		
	90	JP	6180329			Jun-94		
	91	wo	9112706		Leedy	Aug-91		
	92	WO	9409513		Leedy	Apr-94		
	93	DE	4237591			5/11/1994		
-	94	EP	369112			5/23/1990		
	95	EP	402756			12/19/1990		

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INFORMATION DISCLOSURE				Filing Date	April 30, 2001	
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	96	JР	365659			Mar-91		
	97	JP	451535			Dec-91		
	98	JP	529406			Feb-93		
	99	JР	588960			Feb-83		
	100	JP	650990			Feb-94		
	101	JР	772172			Mar-95		
	102	JР	1152271			Oct-89		
	103	JР	1255240			10/12/1989		
	104	JР	2226996			Jan-00		
	105	JР	3292406			Nov-88		ļ
	106	JP	4207047			Sep-90		ļ
	107	JP	4240570			Aug-92		
	108	JР	4294559			Oct-92		ļ
	109	JР	4357848		·	12/10/1992		<u> </u>
	110	JP	5218156			Aug-93		ļ
	111	JР	6119770			Feb-86		
	112	JР	6244285			Mar-87		<u> </u>
	113	JР	6249924			Sep-94		ļ
	114	JР	6273445			Sep-94		

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

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Substitute for form 1449A/PTO				Application Number	09/846,490	
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	115	JР	6313775			Nov-94		
	116	JР	6363777			Apr-88		
	117	JР	58178293			Nov-83		
	118	JР	59149070			Oct-84		
	119	JP	62160373			Oct-87		
	120	- JP	63243768			Oct-88		
	121	JP	63279477			Mar-91	<u> </u>	

	OTHE	R PRIOR ART – NONPATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	122	"Robust Method Using Simple Unit Processes For Thin Film Cu- Polyimide Packaging Structures," IBM Technical Disclosure Bulletin, vol. 34, no. 10A (March 1992)	

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Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

PATENT Docket No.: P6D2-US

ATTACHMENT 2

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 09/846,490 Atto	orney Docket No.: P6D2-US
Inventor: Benjamin N. Eldridge et al. Dat	e Due:
Title: PROBE CARD ASSEMBLY AND KIT, AND ME	THODS OF USING SAME
Receipt is hereby acknowledged of the following:	
□ Patent Application (No. pgs) □ Information Disclosure Statement w/PTO 1449 □ Drawings Sheets □ Declaration and Power of Attorney (Copy from prior Apple Assignment w/Cover Sheet □ Check No, in the amount of \$ □ Revocation/Power of Attorney & Change of Corres. Add □ Certification under 3.73 □Transmittal	□ Submission of Formal Drawings □ Notice of Appeal ress □ Appeal Brief □ Application Data Sheet □ Certificate of Mailing □ Express Mail Certificate
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ication No.: 09/846,490 Attorney Do ntor: Benjamin N. Eldridge et al. Date Due: PROBE CARD ASSEMBLY AND KIT, AND METHODS eipt is hereby acknowledged of the following: Patent Application (No. pgs) Information Disclosure Statement w/PTO 1449	Petition for Extension of Time Resp. to Notice to File Missing Parts Response/Amendment
ication No.: 09/846,490 Attorney Do ntor: Benjamin N. Eldridge et al. Date Due: PROBE CARD ASSEMBLY AND KIT, AND METHODS eipt is hereby acknowledged of the following: Patent Application (No. pgs) Information Disclosure Statement w/PTO 1449 Drawings Sheets Declaration and Power of Attorney (Copy from prior Appl.)	Petition for Extension of Time Resp. to Notice to File Missing Parts Response/Amendment Issue Fee Transmittal Submission of Formal Drawings
ication No.: 09/846,490 Attorney Do ntor: Benjamin N. Eldridge et al. Date Due: : PROBE CARD ASSEMBLY AND KIT, AND METHODS eipt is hereby acknowledged of the following: Patent Application (No. pgs) Information Disclosure Statement w/PTO 1449 Drawings Sheets Declaration and Power of Attorney (Copy from prior Appl.) Assignment w/Cover Sheet Check No. in the amount of \$	Petition for Extension of Time Resp. to Notice to File Missing Parts Response/Amendment Issue Fee Transmittal Submission of Formal Drawings Notice of Appeal Appeal Brief
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ication No.: 09/846,490 Attorney Do ntor: Benjamin N. Eldridge et al. Date Due: : PROBE CARD ASSEMBLY AND KIT, AND METHODS eipt is hereby acknowledged of the following: Patent Application (No. pgs) Information Disclosure Statement w/PTO 1449 Drawings Sheets Declaration and Power of Attorney (Copy from prior Appl.) Assignment w/Cover Sheet Check No, in the amount of \$ Revocation/Power of Attorney & Change of Sorres. Address Certification under 3.73Transmittal	Petition for Extension of Time Resp. to Notice to File Missing Parts Response/Amendment Issue Fee Transmittal Submission of Formal Drawings Notice of Appeal Appeal Brief Application Data Sheet Certificate of Mailing Express Mail Certificate



IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 09/846,490 A	ttorney Docket No.: P6D2-US
Inventor: Benjamin N. Eldridge et al.)ate Due:
Title: PROBE CARD ASSEMBLY AND KIT, AND M	ETHODS OF USING SAME
Receipt is hereby acknowledged of the following:	
□ Patent Application (No. pgs) □ Information Disclosure Statement w/PTO 1449 □ Drawings Sheets □ Declaration and Power of Attorney (Copy from prior A Assignment w/Cover Sheet □ Check No, in the amount of \$ □ Revocation/Power of Attorney & Change of Corres. A □ Certification under 3.73 □Transmittal	Submission of Formal DrawingsNotice of Appeal
Express Mail label No.:	Date Mailed: January 10, 2003

Docket No.: P6D2-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Eldridge et al.	
Application No.: 09/846,490	Examiner: C. Arbes
Filing Date: April 30, 2001	Group Art Unit: 3729
For: Probe Card Assembly And Kit, And Methods Of Using Same	

INFORMATION DISCLOSURE STATEMENT (IDS)

Listed on an attached Form PTO/SB/08A is information known to applicant(s). The

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

Examiner is requested to initial and return the attached Form PTO/SB/08A in accordance with MPEP §609. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56. This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply): It is being filed within 3 months of the application filing date (other (1) than the filing date of a continued prosecution application under §1.53(d)) -- OR --It is being filed within 3 months of entry of a national stage (2) -- OR --It is being filed before the mail date of the first Office Action on the (3) merits -- OR --It is being filed before the mail date of the first Office Action after the (4)

filing of a request for continued examination under §1.114.

Patent

Docket No.: P6D2-US

	the fil nation first O of a re earlier	F.R. $\S1.97(c)$. If this statement is being filed after the latest of: (1) three months beyond ling date of a national application; (2) three months beyond the date of entry of the hal stage as set forth in $\S1.491$ in an international application; (3) the mailing date of a diffice action on the merits, or (4) the mailing date of a first Office Action after the filing equest for continued examination under $\S1.114$, but before the mailing date of the rof a final office action under $\S1.113$, a notice of allowance under $\S1.311$, or an action therwise closes prosecution in the application, then:
		a statement as specified in §1.97(e) is provided below; or
	\boxtimes	a fee of \$180.00 as set forth in \$1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
	final o	F.R. $\S1.97(d)$. If this statement is being filed after the mailing date of the earlier of a office action under $\S1.113$, a notice of allowance under $\S1.311$, or an action that vise closes prosecution in the application, but before payment of the issue fee, then:
	A.	a statement as specified in §1.97(e) is provided below; and
	B.	a fee of \$180.00 as set forth in \$1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
	\$180.0 believe hereby	authorization. Applicants hereby authorize the Director to charge the above fee of 00 to Deposit Account No. 50-0285 (Order No. P6D2-US). Although Applicants that no additional fee is due in connection with the filing of this IDS, the Director is authorized to charge any additional fees due, or credit any overpayment associated, his IDS to Deposit Account No. 50-0285 (Order No. P6D2-US).
		Respectfully submitted,
Date:_	Januar	By: N. Kenneth Burraston Reg. No. 39,923

FormFactor, Inc. Legal Department 2140 Research Drive Livermore, CA 94550 Telephone: (925) 456-3915

Substitute for form 1449A/PTO				Complete If Known		
				Application Number	09/846,490	
	ORMATION			Filing Date	April 30, 2001	
STA	STATEMENT BY APPLICANT			First Named Inventor	Eldridge et al.	
	(use as many sheet	s as necess	ary)	Group Art Unit	3729	
-	(======================================			Examiner Name	C. Arbes	
Sheet	1	of	2	Attorney Docket No.	P6D2-US	

		U	S. PATE	NT DOCUMENTS		
Examiner	Cite	U.S. Patent Do		Name of Patentee or	Publication	Relevant
Initials*	No.1	Number	Kind Code ²	Applicant	Date	Portions
	1	3810301		Cook	5/15/1974	
	2	3835530		Kilby	9/17/1974	
	3	4281449		Ports et al.	8/4/1981	
_	4	4623839		Garretson et al.	11/18/1986	
	5	4795977		Frost et al.	1/3/1989	
	6	4924589		Leedy	5/15/1990	
	7	5055780		Takagi et al.	10/8/1991	
	8	5177438		Littlebury et al.	1/5/1993	,
	9	5412329		Iino et al.	5/2/1995	
	10	5465611		Ruf et al.	11/14/1995	
	11	5476818		Yanof et al.	12/19/1995	
	12	5666190		Quate et al.	9/9/1997	
	13	5720098		Kister	2/24/1998	
	14	5811982		Beaman et al.	9/22/1998	
	15	6032356		Eldridge et al.	3/7/2000	
	16	6215320	Bl	Parrish	4/10/2001	
	17	6219908	B1	Farnworth et al.	4/24/2001	
	18	6330164	Bi	Khandros et al.	12/11/2001	
	19	6334247	B1	Beaman et al.	1/1/2002	
	20	6392426	B2	Farnsworth et al.	5/21/2002	

Examiner	Date	
Signature	Considered	·

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

Substitu	ute for form 1449A/PTO			Con	nplete If Known
				Application Number	09/846,490
	ORMATION D			Filing Date	April 30, 2001
STA	STATEMENT BY APPLICANT			First Named Inventor	Eldridge et al.
	(use as many sheets as	s necess	ary)	Group Art Unit	3729
	· · · · · · · · · · · · · · · · · · ·			Examiner Name	C. Arbes
Sheet 2 of 2				Attorney Docket No.	P6D2-US

			FOREIC	N PA	TENT DOCUMENTS		···	
Examiner Initials	Cite No.1	Foreig Office ³	gn Patent Docum Number ⁴ Kind	nent Code ⁵	Name of Patentee or Applicant	Publication Date	Relevant Portions	T ⁶
	21	EP	544305	A2	Ouchi et al.	6/2/1993		
	22	JP	04-93157		Tazawa	8/13/1992		х
	23	JР	05-018741		Kawase et al.	1/26/1993		х
	24	JP	05-198716		Osawa	8/6/1993		x
	25	JP	06-267408		Todokoro et al.	9/22/1994		х
	26	JР	07-021968		Watanabe et al.	1/24/1995		x
	27	JP	07-333232		Tagi et al.	12/22/1995		х
	28	JP	59-088860		Hatada et al.	5/22/1984		Х
	29	JP	62-160373		Mizumo et al.	10/12/1987		Х

	OTHE	CR PRIOR ART – NONPATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	31	KONG et al., "Integrated electrostatically resonant scan tip for an atomic force microscope," J. Vac. Sci. Technol. B 11(3) (May/June 1993), pp. 634-645	
	32	LEUNG et al., "Active Substrate Membrane Probe Card," Center for Integrated Systems, Stanford University, October 12, 1995, pp. 29.2.1-29.2.4	

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

PATENT Docket No.: P6D2-US

ATTACHMENT 3

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.:_09/846,490	Attorney Docket No.: P6D2-US
Inventor: Benjamin N. Eldridge et al.	Date Due: May 12, 2003
Title: A Method Of Making A Contact Structure	With A Distinctly Formed Tip Structure
	Same of the structure
Receipt is hereby acknowledged of the following: Cited References Attached	
□ Patent Application (No. pgs) Information Disclosure Statement wpto 1449 □ Drawings Sheets □ Declaration and Power of Attorney (Copy from pri □ Assignment w/Cover Sheet □ Check No., in the amount of \$ □ Revocation/Power of Attorney & Change of Corre □ Certification under 3.73 ▼ Request For Continued Examination Transmittal	☐ Submission of Formal Drawings
Express Mail label No.:	Date Mailed: <u>May 8, 2003</u>
	ND TRADEMARK OFFICE Attorney Docket No.: P6D2-US
IN THE U.S. PATENT A	Attorney Docket No.: P6D2-US
Application No.: 09/846,490	Date Distinctly Formed Tip Structure
Application No.: <u>U976-99</u> Inventor: <u>Benjamin N. Eldridge et al.</u> Inventor: <u>Act Making A Contact Structure</u>	ire Willi As O
Application No.: 09/846,490 Inventor: Benjamin N. Eldridge et al. Title: A Method Of Making A Contact Structu	MAY 1 3 2003 &
	11111 1 0 2000
Receipt is hereby acknowledged of the following	Petition Extension of Time Petition Notice to File Missing Parts Notice to File Missing Parts Petition Notice To File Missing Parts
Receipt is hereby acknowled Cited References Attached Cited References Attached	Dinemantal Amendment
☐ Patent Application (No. pgs) ☐ Patent Application (No. pgs) ☐ Information Disclosure Statement w/PTO 1445 ☐ Drawings Sheets ☐ Attorney (Copy f	Issue Fee Transmittal Issue Fee Transmittal Submission of Formal Drawings Submission of Appeal
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Declaration and Power Sheet Assignment w/Cover Sheet Assignment w/Cover Sheet Check No., in the amount of \$ Check No., in the amount of \$ Revocation/Power of Attorney & Change Revocation under 3.73 Certification under 3.73	of Corres. Address Appeal Brief Application Data Sheet Application Data Sheet Certificate of Mailing Certificate Application Data Sheet Application Data Sheet Application Data Sheet
	or Certificate
☐ Revocation/Power of Attornay ☐ Revocation under 3.73 ☐ Certification under 3.73 ☑ Request For Continued Examination Tra	Date Mailed: May 8, 2003
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Express Mail label No.:___



Patent

Docket No.: P6D2-US

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL" 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail on May 8, 2003 in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Patti Crowder

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Eldridge et al.

Application No.: 09/846,490 Filing Date: April 30, 2001

For: Probe Card Assembly And Kit, And

Methods Of Using Same

Examiner: C. Arbes

Group Art Unit: 3729

INFORMATION DISCLOSURE STATEMENT (IDS)

Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on an attached Form PTO/SB/08A is information known to applicant(s). The Examiner is requested to initial and return the attached Form PTO/SB/08A in accordance with MPEP §609. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

			and is, or is considered to be, material to patentability as defined in
§1.56.			
\boxtimes	This statemen	nt qualif	ies under 37 C.F.R. §1.97, subsection (b) because (check all that apply)
		(1)	It is being filed within 3 months of the application filing date (other than the filing date of a continued prosecution application under §1.53(d)) OR
		(2)	It is being filed within 3 months of entry of a national stage OR
		(3)	It is being filed before the mail date of the first Office Action on the merits OR
	\boxtimes	(4)	It is being filed before the mail date of the first Office Action after the filing of a request for continued examination under §1.114.

Patent

Docket No.: P6D2-US

	the fination first Cof a rearlie	F.R. $\S1.97(c)$. If this statement is being filed after the latest of: (1) three months beyond ling date of a national application; (2) three months beyond the date of entry of the nal stage as set forth in $\S1.491$ in an international application; (3) the mailing date of a Office action on the merits, or (4) the mailing date of a first Office Action after the filing request for continued examination under $\S1.114$, but before the mailing date of the r of a final office action under $\S1.113$, a notice of allowance under $\S1.311$, or an action therwise closes prosecution in the application, then:
		a statement as specified in §1.97(e) is provided below; or
		a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
	final o	F.R. $\S1.97(d)$. If this statement is being filed after the mailing date of the earlier of a office action under $\S1.113$, a notice of allowance under $\S1.311$, or an action that vise closes prosecution in the application, but before payment of the issue fee, then:
	A.	a statement as specified in §1.97(e) is provided below; and
	B.	a fee of \$180.00 as set forth in \$1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.
\boxtimes	filing	of this IDS, the Director is authorized to charge any fees due, or credit any ayment associated, with this IDS to Deposit Account No. 50-0285 (order no. P6D2-
		Respectfully submitted,
Date:_	May 8.	
		N/Kenneth Burraston Reg. No. 39,923
FormF	actor In	

FormFactor, Inc.
Legal Department
2140 Research Drive
Livermore, CA 94550
Telephone: (925) 456-3915

Substitu	ite for form 1449A/PTO			Complete If Known		
				Application Number	09/846,490	
1	ORMATION DI			Filing Date	April 30, 2001	
STA	ATEMENT BY A	APPL	ICANT	First Named Inventor	Eldridge et al.	
	(use as many sheets as	necess	агу)	Group Art Unit	3729	
	•		• /	Examiner Name	C. Arbes	
Sheet	1	of	2	Attorney Docket No.	P6D2-US	

U.S. PATENT DOCUMENTS										
Examiner	Cite	U.S. Patent	Document	Name of Patentee or	Publication	Relevant				
Initials*	No.1	Number	Kind Code ²	Applicant	Date	Portions				
	1	4537808		Yamamoto et al.	8/27/1985					
	2	4969826		Grabbe	11/13/1990					

FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	Foreig Office ³	gn Patent I Number ⁴		nent Code ⁵	Name of Patentee or Applicant	Publication Date	Relevant Portions	T ⁶	
	3	WO	92/1001	0		Billette	6/11/1992		х	

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

PATENT Docket No.: P6D2-US

ATTACHMENT 4

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 09/846,490	Attorney Docket No.: P6D2-US
Inventor: Eldridge et al.	Date Due:
Inventor: Elanage et al.	ND METHODS OF USING SAME
Title: PROBE CARD ASSEMBLY AND KIT, A	NO MET.
Receipt is hereby acknowledged of the following:	
COPIES OF CITED REFERENCES	
☐ Patent Application (No. pgs) ☐ Information Disclosure Statement w/PTO 1449 ☐ Drawings Sheets ☐ Declaration and Power of Attorney ☐ Assignment w/Cover Sheet ☐ Check No, in the amount of \$ ☐ Revocation/Power of Attorney & Change of Co	Petition for Extension of Time Resp. to Notice to File Missing Parts Response/Amendment Issue Fee Transmittal Submission of Formal Drawings Notice of Appeal Appeal Brief Frances Mail Codificate
☐ Certification under 3.73	1.20
门 IN THE U.S. PATENT AND	TRADEMARK OFFICE
20/040 400	Attorney Docket NoT 002
Application No.: 09/846,490	Date Due:
Inventor: Eldridge et al. Title: PROBE CARD ASSEMBLY AND KIT, AND	METHODS OF USING SAME
Title: PROBE CARD ASSEMBLE	(0, 0)
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□ Patent Application (No. pgs) □ Information Disclosure Statement w/PTO 1449 □ Drawings Sheets □ Declaration and Power of Attorney □ Assignment w/Cover Sheet □ Check No., in the amount of \$ □ Revocation/Power of Attorney & Change of Corre □ Certification under 3.73 □ Transmittal Express Mail label No.:	Petition for Extension of Time Resp. to Notice to File Missing Parts Response/Amendment Issue Fee Transmittal Submission of Formal Drawings Notice of Appeal Appeal Brief Express Mail Certificate Certificate of Mailing Date Mailed: May 25, 2004
Express Mail label No	

Attorney Docket No.: P6D2-US

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL" 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail on <u>May 25, 2004</u> in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Michelle White

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Eldridge et al.

Application No.: 09/846,490 Filing Date: April 30, 2001

For: PROBE CARD ASSEMBLY AND KIT, AND

METHODS OF USING SAME

Examiner: C. Arbes

Group Art Unit: 3729

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on an attached Form PTO/SB/08A is information known to applicant(s). A copy of each listed publication, U.S. and foreign patent document, and pending U.S. application (including drawings and claims), is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. The Examiner is requested to initial and return the attached Form PTO/SB/08A in accordance with MPEP §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

	This st apply):	atement q	ualifies under 37 C.F.R. §1.97, subsection (b) because (check all that
		☐ (1) -	It is being filed within 3 months of the application filing date (other than the filing date of a continued prosecution application under §1.53(d)) OR
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		(3)	It is being filed before the mail date of the first Office Action on the merits
	•	☐ (4)	OR It is being filed before the mail date of the first Office Action after the filing of a request for continued examination under §1.114.
	beyond the nation of a firs filing of earlier of	the filing d onal stage t Office act a request f of a final off	c). If this statement is being filed after the latest of: (1) three months ate of a national application; (2) three months beyond the date of entry of as set forth in §1.491 in an international application; (3) the mailing date ion on the merits, or (4) the mailing date of a first Office Action after the or continued examination under §1.114, but before the mailing date of the ice action under §1.113, a notice of allowance under §1.311, or an action sees prosecution in the application, then:
		a statemer	at as specified in §1.97(e) is provided below; or
		a fee of \$18 with the pa	80.00 as set forth in §1.17(p) is authorized below, enclosed, or included yment of other papers filed together with this statement.
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Fee Authorization. Applicants hereby authorize the Commissioner to charge the above fee of \$180.00 to Deposit Account No. 50-0285 (Order No. P6D2-US). Although Applicants believe that no additional fee is due in connection with the filing of this paper, the Commissioner is hereby authorized to charge any additional fees due, or credit any overpayment associated, with this communication to Deposit Account No. 50-0285 (Order No. P6D2-US)

Respectfully submitted,

Date: May 21, 2004

Stuart L. Merkadeau Registration No. 33,262

FormFactor, Inc. Legal Department 2140 Research Drive Livermore, CA 94550 Telephone: (925) 294-4300

Substitu	te for form 1449A/PTO		······································	Complete If Known		
				Application Number	09/846,490	
1	ORMATION DI			Filing Date	4/30/01	
STA	TEMENT BY A	APPL:	ICANT	First Named Inventor	Eldridge et al.	
1	(use as many sheets as	necess	ary)	Group Art Unit	3729	
	· ·			Examiner Name	C. Arbes	
Sheet	1	of	1	Attorney Docket No.	P6D2-US	

U.S. PATENT DOCUMENTS										
Examiner	Cite	U.S. Patent	Document	Name of Patentee or	Publication	Relevant				
Initials*	No.1	Number	Kind Code ²	Applicant	Date	Portions				
	1	3,963,986		Morton et al.	6/15/76					
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FOREIGN PATENT DOCUMENTS										
Examiner Initials*	ner Cite Foreign Patent Document		Name of Patentee or Applicant	Publication Date	Relevant Portions	T ⁶				
	2	KR	10-0013	608		Tokyo Electron Co.	9/6/90			
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OTHER PRIOR ART – NONPATENT LITERATURE DOCUMENTS						
Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²				
3	Korea Institute of Machinery & Materials "Development of Manufacturing Process for Membrane Probe Card", Ministry of Science and Technology, pp.1-62, (1992).					
	Cite	Cite No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published Korea Institute of Machinery & Materials "Development of Manufacturing Process for Membrane Probe Card", Ministry of Science and Technology,				

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 09/846,490 Inventor: Eldridge et al. Title: PROBE CARD ASSEMBLY AND KIT, AND	Attorney Docket No.: P6D2-US. Date Due: METHODS OF USING SAME
Receipt is hereby acknowledged of the following: COPIES OF CITED REFERENCES	
☐ Patent Application (No. pgs) ☐ Information Disclosure Statement w/PTO 1449 ☐ Drawings Sheets ☐ Declaration and Power of Attorney ☐ Assignment w/Cover Sheet ☐ Check No, in the amount of \$ ☐ Revocation/Power of Attorney & Change of Corre ☐ Certification under 3.73 ☐ Transmittal	Petition for Extension of Time Resp. to Notice to File Missing Parts Response/Amendment Issue Fee Transmittal Submission of Formal Drawings Notice of Appeal Appeal Brief Express Mail Certificate Certificate of Mailing Date Mailed: May 1, 2004